Numbers and Operations
Lesson 5: Worksheet
Math for Standards

Name _____

Date _____

For each question, you need to find the answer and show your work. Each problem is worth 3 points: one for the correct answer and two for showing your work. For some problems, you may just need to write out how you know you have the correct answer.

1. Choose the best buy among the following. State why you chose the price.
$0.58 for 5 items $0.88 for 8 items $1.08 per dozen $1.38 for 14 items

2. Choose the best buy among the following. State why you chose the price.
$2.48 for 7 items $3.08 for per dozen $4.18 for 19 items $4.88 for 2 dozen

3. It costs Matt Mitarnowski $34.19 to put 13 gallons of diesel into his truck. If the station does not change its prices, how much will he pay to fill his truck's tank with 24.5 gallons of diesel?

4. The ratio of a baseball team's wins to losses is 5 to 3. The team has won 55 games. If there are 162 games in the season, how many games do they have left to play?

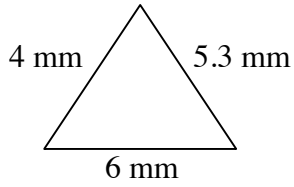
5. It costs a school district $54.59 to buy a textbook. There are *s* students in the district. Write an equation that could be used to find *C*, the total cost of textbooks for all students in the district?

6. The total playing time of a CD is 47 minutes. There are *t* tracks on the CD. Write an equation that could be used to find *M*, the average length of one track?

7. Fuzzy Jeff's age, *F*, is 2.3 times that of his younger brother, Shecky, who is *S* years old. Find an equation to show this relationship and test it out to make sure it works.

Open-Ended Question: Answer the following question on a separate piece of paper. Make sure as you answer the open-ended question that you show your work AND explain how you know you are doing the correct work. YOU MUST EXPLAIN WHAT YOU ARE DOING!!!

Use the figure below. Express you solutions in two ways: in millimeters and centimeters.



A. A similar triangle has a perimeter that is 3 times greater than the one shown above. What is the perimeter of the larger triangle?

B. The perimeter of a second larger triangle is in the ratio of 5 to 2 with the one shown above. What is the perimeter of the larger triangle?